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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/601,135	06/20/2003	Christian Monereau	Serie 5843	5960
7590 10/21/2004			EXAMINER	
Linda K. Russ Air Liquide	sell		SPITZER, ROBERT H	
Suite 1800			ART UNIT	PAPER NUMBER
2700 Post Oak Houston, TX			1724	
,			DATE MAILED: 10/21/2004	ļ

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/601,135	MONEREAU, CHRISTIAN				
Office Action Summary	Examiner	Art Unit				
	Robert H. Spitzer	1724				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a r  - If NO period for reply is specified above, the maximum statutory perion  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thir od will apply and will expire SIX (6) MON tute, cause the application to become A.	reply be timely filed  ty (30) days will be considered timely.  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 20	June 2003					
	s action is non-final.					
3) Since this application is in condition for allow		ers, prosecution as to the merits is				
• • • • • • • • • • • • • • • • • • • •	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)  Claim(s) 11-38 is/are pending in the applicate 4a) Of the above claim(s) is/are withd 5)  Claim(s) is/are allowed.  6)  Claim(s) 11-38 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and	rawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Exami	iner.					
10)⊠ The drawing(s) filed on 20 June 2003 is/are:	a)⊠ accepted or b)☐ obje	cted to by the Examiner.				
Applicant may not request that any objection to the	he drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corr						
Priority under 35 U.S.C. § 119		·				
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stage				
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date				
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 6/20/2003.</li> </ol>	<del>-</del>	nformal Patent Application (PTO-152)				

Application/Control Number: 10/601,135

Art Unit: 1724

## **DETAILED ACTION**

- 1. The abstract of the disclosure is objected to because of the use of the legal phraseology of "said", the inclusion of "Figure 4", and as it is not written as a single paragraph. Correction is required. See MPEP § 608.01(b).
- 2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 11-38 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 11,33 and 34 are indefinite because there is no intereconnection between any of steps (i)-(iii), so that the process steps can be achieved. Claim 15 is indefinite because there is no direct antecedent basis for the recitation of "the process parameter". Claim 17 is indefinite because there is no direct antecedent basis for the recitation of "the operating cycle's predicted change". Claim 18 is indefinite because there is no direct antecedent basis for the recitation of "the change

Application/Control Number: 10/601,135

Art Unit: 1724

in the composition of the feed gas". Claim 20 is indefinite because there is no direct antecedent basis for the recitation of "the pre-established signal". Claim 25 is indefinite because there is no direct antecedent basis for the recitation of "the predicted change in the composition of the feed gas". Claim 30 is indefinite because there is no direct antecedent basis for the recitation of "the regeneration phase". Claims 31 and 32 are indefinite because there is no direct antecedent basis for the recitation of "the exceptional operating cycle of the treatment unit". Claim 43 is further indefinite because in line 13, there is no direct antecedent basis for the recitation of "the operating cycle's predicted change". Claims 37 and 38 are indefinite because they are not supported by the specification, as they are not described therein. Claims 12-14,16,19,21-24,26-29,35 and 36 are indefinite because they depend from the above indefinite claims.

- 5. Claims 11-38 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 6. The references listed on both the PTO-1449 and the PTO-892 show art of interest only, over which the claims define allowable subject matter.
- 7. Applicant's response to this Office action must also include the following editorial changes: on Fig. 1, there is no description of number "9" in the specification; page 3, line 20, "PSU" should be "PSA"; page 6, lines 2,6,7,9,15,21 and 34, either "the" or "said" should be canceled; page 7, lines 4,5,17 and 26, either "the" or "said" should be canceled; page 8, line 33, "it" should be "is"; page 15, lines 24 and 25, either "the" or "said" should be canceled; and, page 17, line 30, "absorbent" should be "adsorbent".

Page 4

Application/Control Number: 10/601,135

Art Unit: 1724

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert H. Spitzer whose telephone number is (571) 272-1167. The examiner can normally be reached on Monday-Thursday from (5:30AM-4:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

October 18, 2004

Robert H. Spitzer
Primary Examiner
Art Unit 1724
October 18, 2004